

Abstract

A process for producing an absorbent polymer structure (Pa) by treating the outer portion
5 of an untreated absorbent polymer structure (Pu1). The process includes the step of
bringing the outer portion of the untreated absorbent polymer structure (Pu1) into contact
with an aqueous solution including at least one chemical cross-linker and at least one
inorganic compound in dispersed colloidal form. The process also includes the step of
heating the absorbent polymer structure, of which the outer portion has been brought into
10 contact with the aqueous solution, at a temperature within a range from about 40 to about
300 °C, so that the outer portion of the absorbent polymer structure is more strongly
cross-linked in comparison to the inner portion and the inorganic compound is at least
partly immobilized in the outer portion of the absorbent polymer structure.